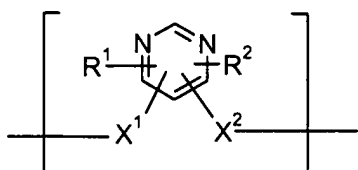
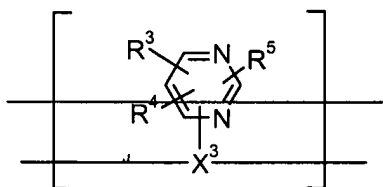


In the claims:

1. (currently amended): A polymer comprising a repeating unit of the formula



(I); and/or

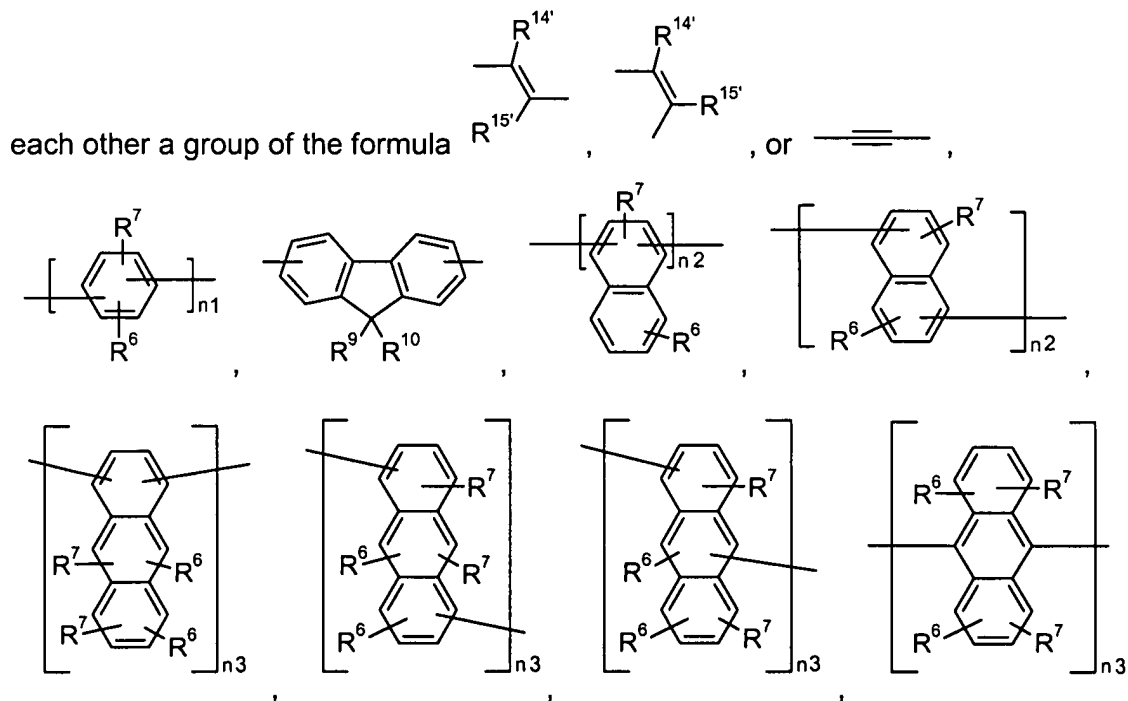


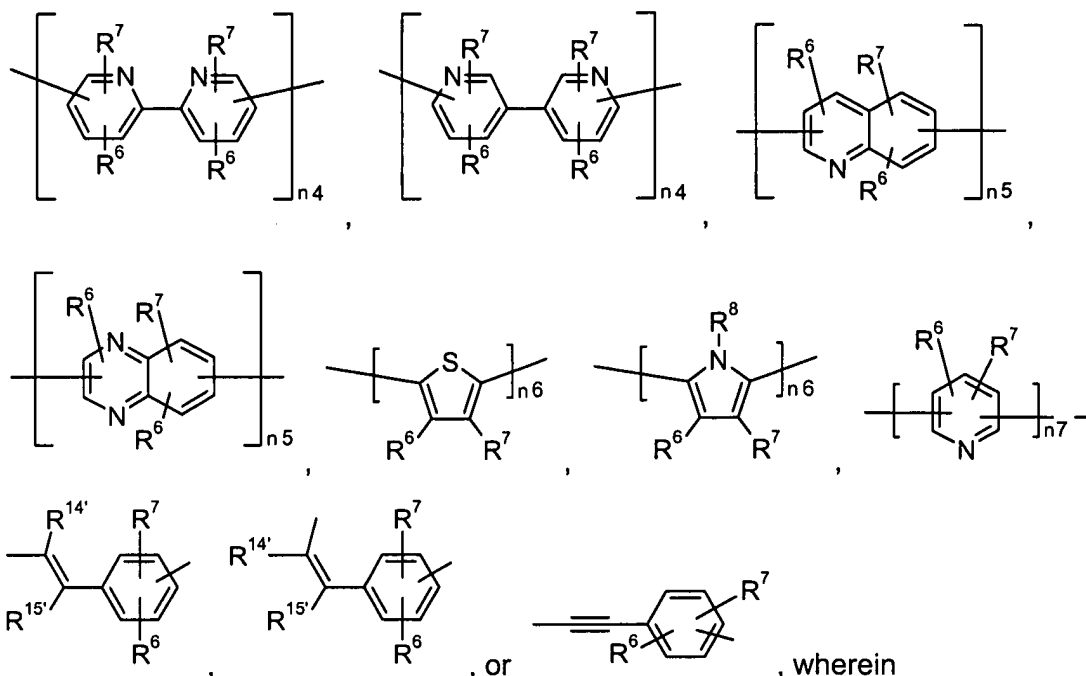
(II), wherein

R^1 [(I)] and R^2 , R^3 , R^4 and R^5 are independently of each other an organic substituent, which optionally can be substituted,

X^1 [(I)] and X^2 and X^3 are independently of each other a divalent linking group.

2. (previously presented) A polymer according to claim 1, wherein X^1 and X^2 are independently of





$n_1, n_2, n_3, n_4, n_5, n_6$ and n_7 are integers of 1 to 10, R^6 and R^7 are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl, which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, or $-CO-R^{28}$,

R^8 is C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, or C_7 - C_{25} aralkyl,

R^9 and R^{10} are independently of each other C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl, or

R^9 and R^{10} form a ring, which may optionally be substituted by R^6 ,

$R^{14'}$ and $R^{15'}$ are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, or C_2 - C_{20} heteroaryl which is substituted by E,

D is $-CO-$, $-COO-$, $-S-$, $-SO-$, $-SO_2-$, $-O-$, $-NR^{25}-$, $-SiR^{30}R^{31}-$, $-POR^{32}-$, $-CR^{23}=CR^{24}-$, or $-C\equiv C-$, and

E is $-OR^{29}$, $-SR^{29}$, $-NR^{25}R^{26}$, $-COR^{28}$, $-COOR^{27}$, $-CONR^{25}R^{26}$, $-CN$, $-OCOOR^{27}$, or halogen,

wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H, C_6-C_{18} aryl, C_6-C_{18} aryl which is substituted by C_1-C_{18} alkyl, C_1-C_{18} alkoxy, C_1-C_{18} alkyl, or C_1-C_{18} alkyl which is interrupted by $-O-$, or

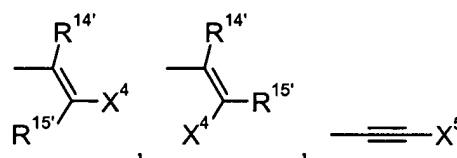
R^{25} and R^{26} together form a five or six membered ring, R^{27} and R^{28} are independently of each other H, C_6-C_{18} aryl, C_6-C_{18} aryl which is substituted by C_1-C_{18} alkyl, or C_1-C_{18} alkoxy, C_1-C_{18} alkyl, or C_1-C_{18} alkyl which is interrupted by $-O-$,

R^{29} is H, C_6-C_{18} aryl, C_6-C_{18} aryl, which is substituted by C_1-C_{18} alkyl, C_1-C_{18} alkoxy, C_1-C_{18} alkyl, or C_1-C_{18} alkyl which is interrupted by $-O-$,

R^{30} and R^{31} are independently of each other C_1-C_{18} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{18} alkyl, and

R^{32} is C_1-C_{18} alkyl, C_6-C_{18} aryl, or C_6-C_{18} aryl, which is substituted by C_1-C_{18} alkyl.

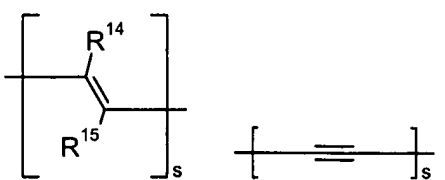
3. (previously presented) A polymer according claim 2, wherein R^1 and R^2 are independently of each other H, C_1-C_{18} alkyl, C_1-C_{18} alkyl which is substituted by E and/or interrupted by D, C_2-C_{18} alkenyl, C_2-C_{18} alkynyl, C_1-C_{18} alkoxy, C_1-C_{18} alkoxy which is substituted by E and/or

interrupted by D, , C_7-C_{25} aralkyl, C_6-C_{24} aryl or C_2-C_{20} heteroaryl, which optionally can be substituted,

X^4 is C_1-C_{18} alkyl, C_1-C_{18} alkyl which is substituted by E and/or interrupted by D, C_6-C_{24} aryl, which optionally can be substituted,

X^5 is C_1-C_{18} alkyl, C_6-C_{24} aryl, C_6-C_{24} aryl substituted by $-OC_1-C_{18}$ alkyl or $-OC_6-C_{24}$ aryl.

4. (currently amended) A polymer according to ~~any of claim~~ **[[[s]] 1**, comprising a co-monomer T

which is selected from the group consisting of ,

R^6 and R^7 are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, or $-CO-R^{28}$,

R^8 is C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, or C_7 - C_{25} aralkyl,

R^9 and R^{10} are independently of each other C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl, or

R^9 and R^{10} form a five- or six-membered ring, which may optionally be substituted by R^6 ,

$R^{14'}$ and $R^{15'}$ are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, or C_2 - C_{20} heteroaryl which is substituted by E,

D is $-CO-$, $-COO-$, $-S-$, $-SO-$, $-SO_2-$, $-O-$, $-NR^{25}-$, $-SiR^{30}R^{31}-$, $-POR^{32}-$, $-CR^{23}=CR^{24}-$, or $-C\equiv C-$, and

E is $-OR^{29}$, $-SR^{29}$, $-NR^{25}R^{26}$, $-COR^{28}$, $-COOR^{27}$, $-CONR^{25}R^{26}$, $-CN$, $-OCOOR^{27}$, or halogen,

wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H, C_6 - C_{18} aryl, C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkyl, or C_1 - C_{18} alkyl which is interrupted by $-O-$, or

R^{25} and R^{26} together form a five or six membered ring, R^{27} and R^{28} are independently of each other H, C_6 - C_{18} aryl, C_6 - C_{18} aryl which is substituted by C_1 - C_{18} alkyl, or C_1 - C_{18} alkoxy, C_1 - C_{18} alkyl, or C_1 - C_{18} alkyl which is interrupted by $-O-$,

R^{29} is H, C_6 - C_{18} aryl, C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkyl, or C_1 - C_{18} alkyl which is interrupted by $-O-$,

R^{30} and R^{31} are independently of each other C_1 - C_{18} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl, and

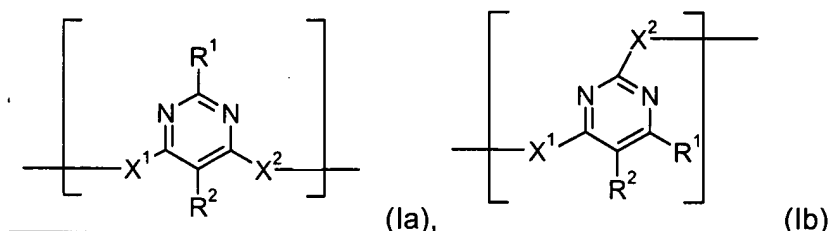
R^{32} is C_1 - C_{18} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{18} alkyl,

or

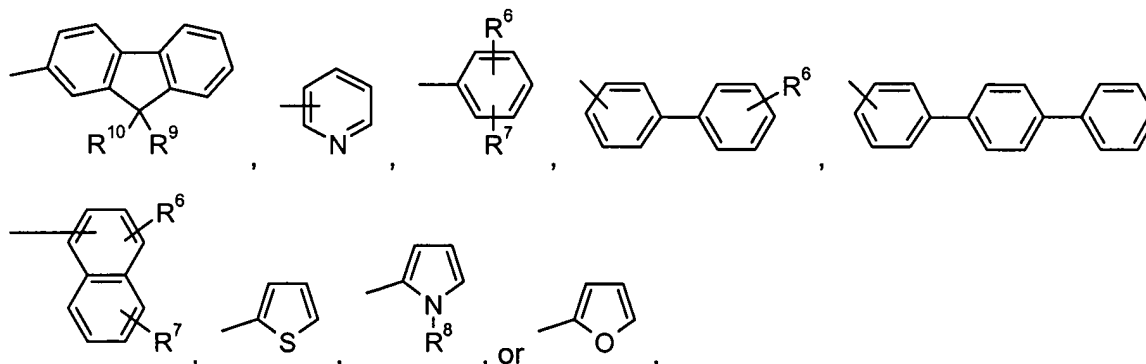
R^9 and R^{10} together form a group of formula $=CR^{100}R^{101}$, wherein

R^{100} and R^{101} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, or C_2 - C_{20} heteroaryl, or C_2 - C_{20} heteroaryl which is substituted by E, and
 R^{14} and R^{15} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, or C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E.

5. (currently amended) A polymer according to claim 1, comprising repeating units of formula Ia or Ib,



wherein R^1 is a group of formula



wherein R^2 is H,

R^6 and R^7 are independently of each other H, C_1 - C_{12} alkyl, C_5 - C_{12} cycloalkyl, C_6 - C_{24} aryl, which can be substituted by $-O$ - C_1 - C_{12} alkyl, or C_1 - C_{18} alkoxy,

R^8 is C_1 - C_{18} alkyl, C_1 - C_{18} alkyl interrupted by one or two oxygen atoms, or C_6 - C_{12} aryl, which optionally can be substituted by C_1 - C_{12} alkyl, or C_1 - C_{12} alkoxy,

R^9 and R^{10} are independently of each other H, C_1 - C_{12} alkyl, or C_1 - C_{12} alkoxy,

R^9 and R^{10} are independently of each other C_1 - C_{18} alkyl, especially C_4 - C_{12} alkyl, which can be interrupted by one or two oxygen atoms.

high



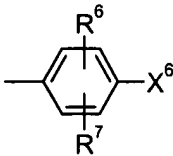
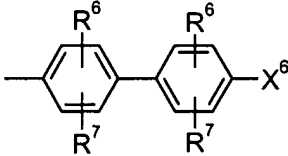
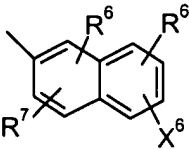
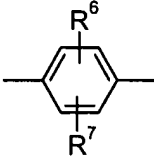
R⁹ and R¹⁰ form a five or six membered carbocyclic ring, which optionally can be substituted by C₁-C₈alkyl.

via



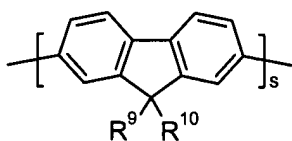
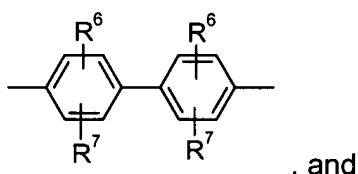
via

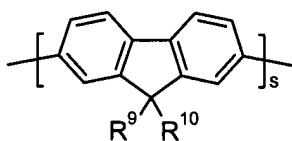
via




, or
 
, or

R^1 is a group of formula
 X^6 is H, C_1 - C_{18} alkyl, cyclohexyl, or C_1 - C_{18} alkoxy,
 R^2 is H,

X^1 and X^2 are independently of each other a group of formula



T is a group of formula
 
, wherein s is one or two, and R^9 and R^{10} are independently of each other C_1 - C_{18} alkyl, which can be interrupted by one or two oxygen atoms, and
 R^6 and R^7 are independently of each other H, C_1 - C_{12} alkyl, C_5 - C_{12} cycloalkyl, C_6 - C_{24} aryl, which can be substituted by $-O$ - C_1 - C_{12} alkyl, or C_1 - C_{18} alkoxy.

8-11. (cancelled)

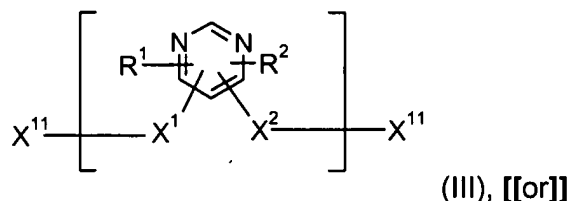
12. (previously presented) An optical device or a component therefore, comprising a substrate and a polymer according to claim 1.

13. (original) An optical device according to claim 12, wherein the optical device comprises an electroluminescent device.

14. (previously presented) An optical device according to claim 13, wherein the electroluminescent device comprises

- (a) a charge injecting layer for injecting positive charge carriers,
- (b) a charge injecting layer for injecting negative charge carriers,
- (c) a light-emissive layer located between the layers (a) and (b) comprising a polymer according to claim 1.

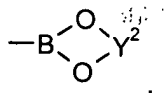
15. (currently amended) A monomer of the formula



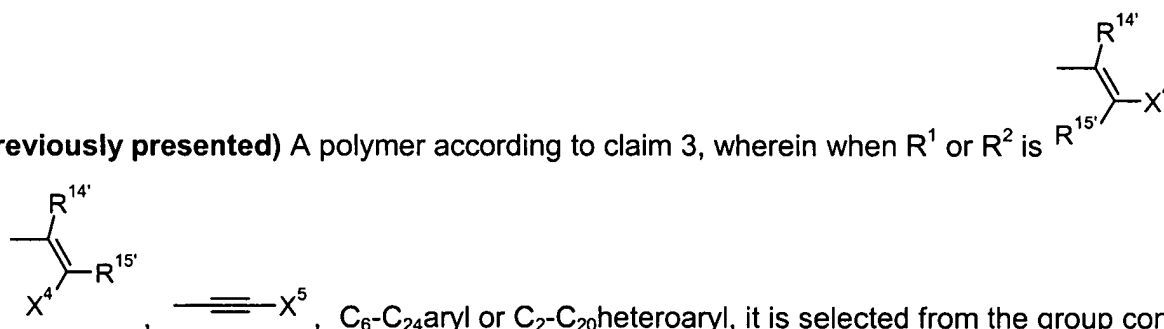
wherein

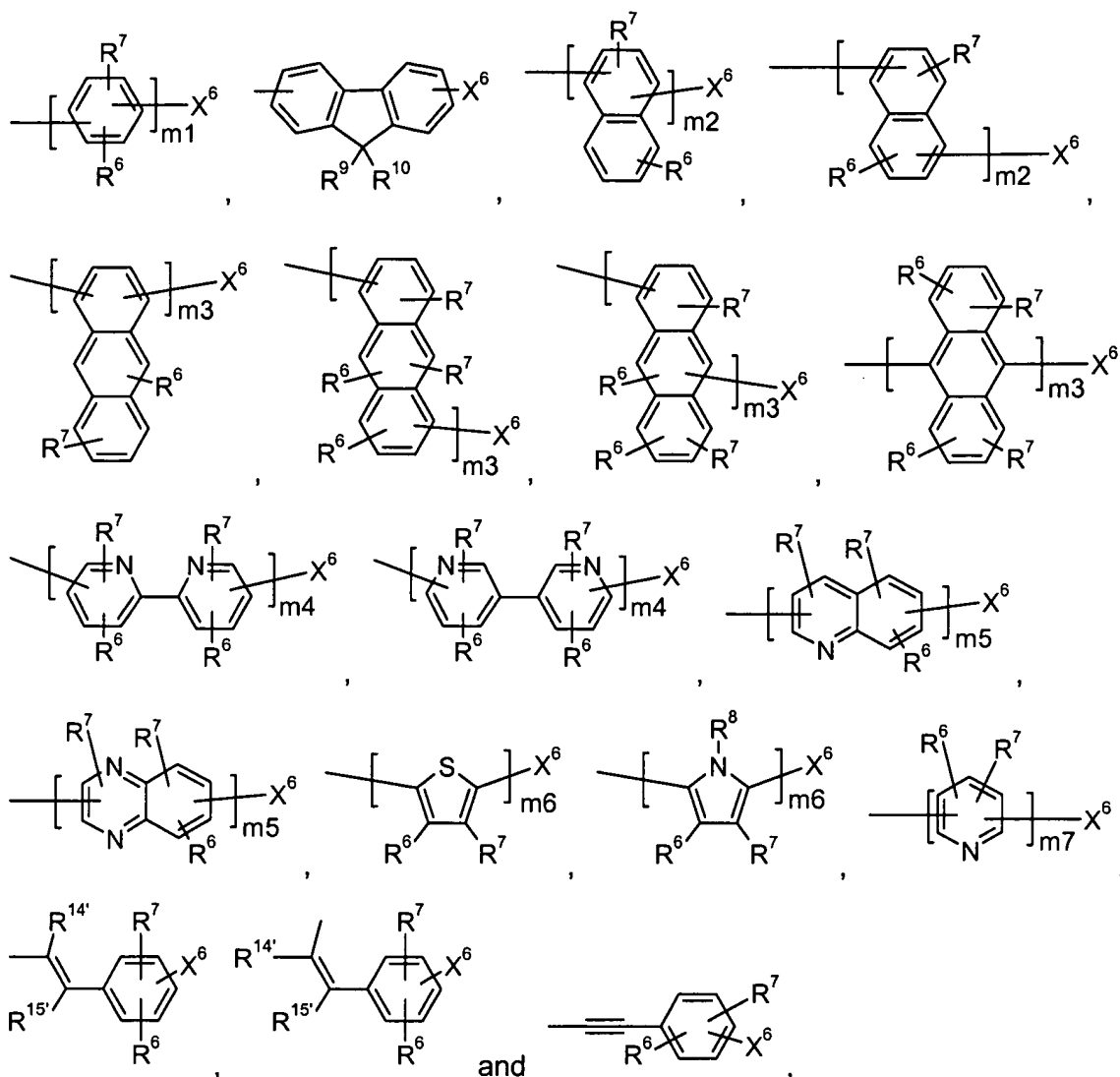
R¹, R², R³, R⁴ and R⁵ are independently of each other an organic substituent, especially C₂-C₃₀aryl or a C₂-C₂₆heteroaryl, which optionally can be substituted,

X¹, X², and X³ are independently of each other a divalent linking group, and

X¹¹ is independently in each occurrence a halogen atom, or -B(OH)₂, -B(OY¹)₂ or , wherein Y¹ is independently in each occurrence a C₁-C₁₀alkyl group and Y² is independently in each occurrence a C₂-C₁₀alkylene group, which may be substituted 1-20 times by a C₁-C₁₀alkyl group with the proviso that 2-phenyl-4,6-bis(p-bromophenyl)pyrimidine and 2,4,6-tris(p-bromophenyl)pyrimidine are excluded.

16. (previously presented) A polymer according to claim 3, wherein when R¹ or R² is



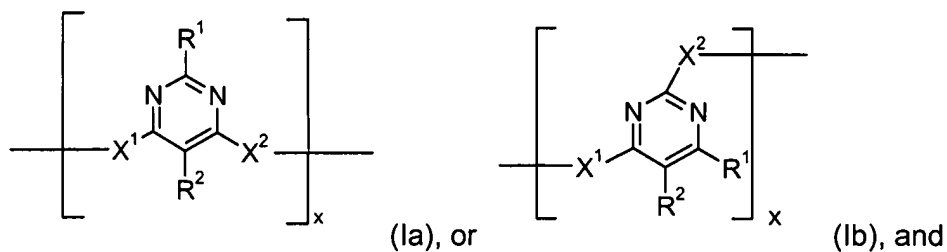


wherein m1, m2, m3, m4, m5, m6 and m7 are integers of 1 to 10,

X^6 is H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{30} aryl, which optionally can be substituted, C_2 - C_{26} heteroaryl, which optionally can be substituted, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl,

R^{11} , R^{12} and R^{13} are independently of each other H, C_1 - C_{18} alkyl, C_1 - C_{18} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{18} alkenyl, C_2 - C_{18} alkynyl, C_1 - C_{18} alkoxy, C_1 - C_{18} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl.

17. (previously presented) A polymer according to claim 7, comprising a repeating unit of formula

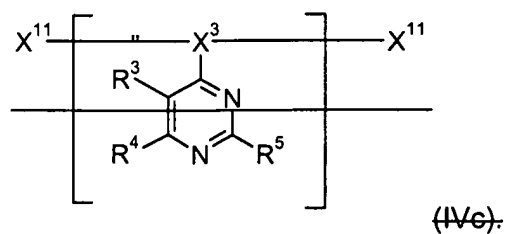
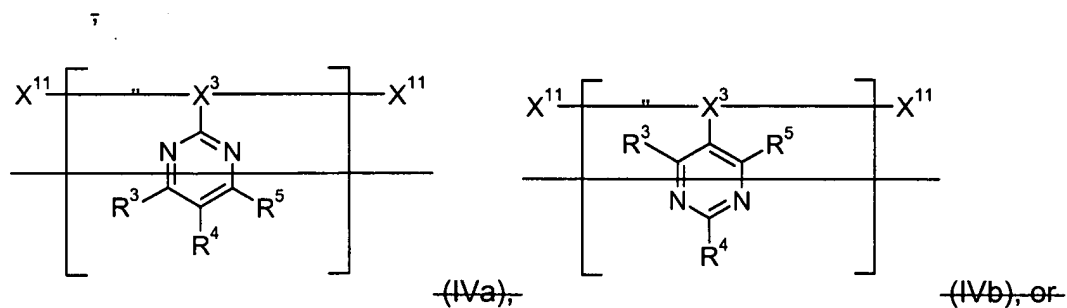
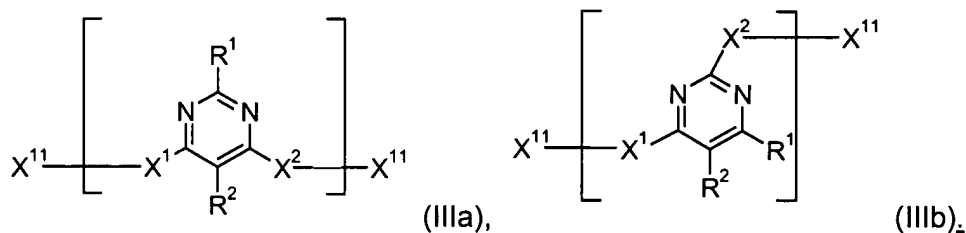


a co-monomer $\left[\text{T} \right]_y$, wherein

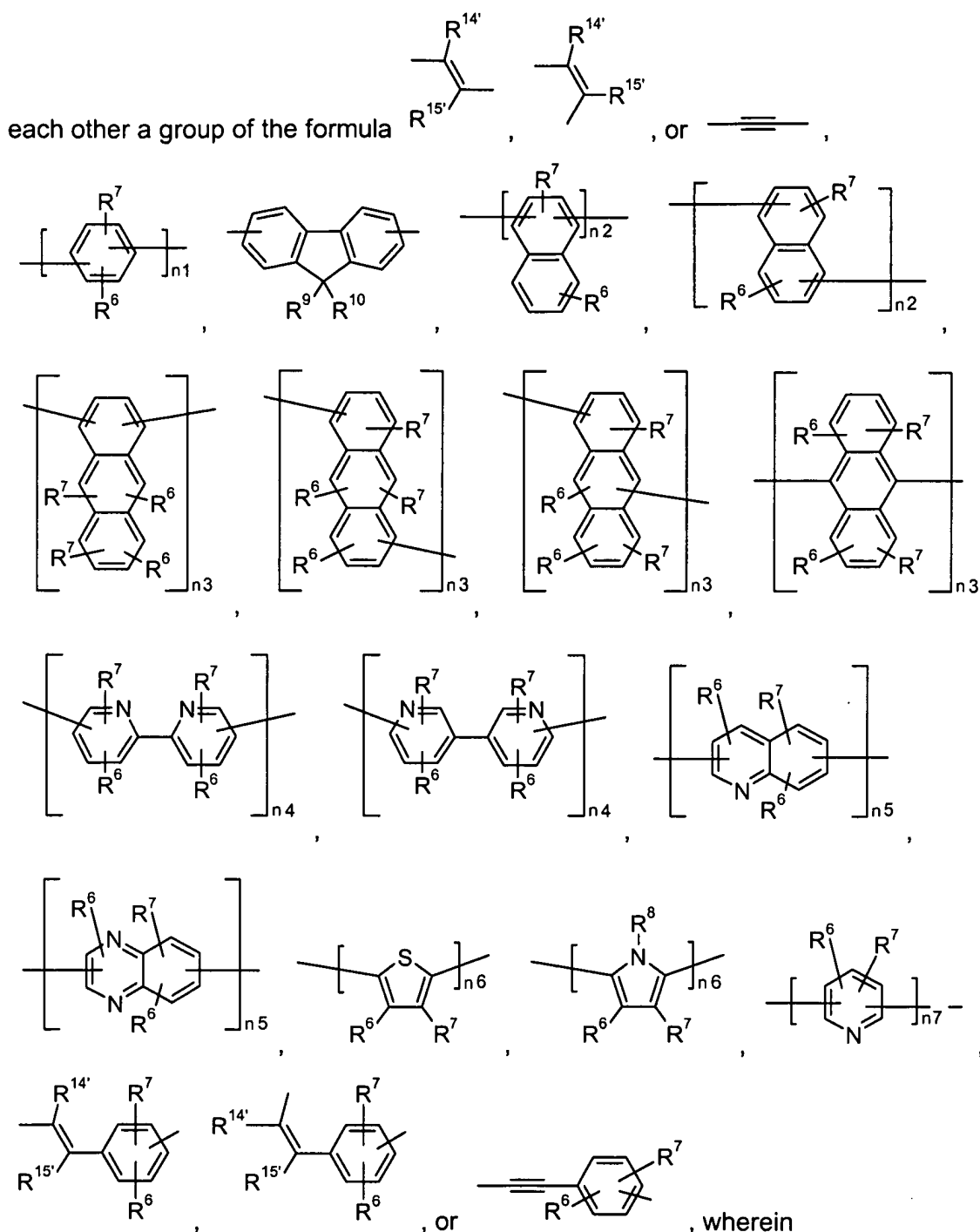
x is in the range of 0.4 to 0.6, and y is in the range of 0.6 to 0.4, wherein the sum of x and y is 1.

18. (cancelled)

19. (currently amended) A monomer according to claim 15 of the formula



20. (new) A monomer of formula (III) according to claim 15, wherein X^1 and X^2 are independently of



n1, n2, n3, n4, n5, n6 and n7 are integers of 1 to 10, R⁶ and R⁷ are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl, which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-

C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, or -CO-R²⁸,

R⁸ is C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄ aryl, or C₇-C₂₅aralkyl,

R⁹ and R¹⁰ are independently of each other C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or

R⁹ and R¹⁰ form a ring, which may optionally be substituted by R⁶,

R^{14'} and R^{15'} are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -SO₂-, -O-, -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-, or -C≡C-, and E is -OR²⁹-, -SR²⁹-, -NR²⁵R²⁶-, -COR²⁸-, -COOR²⁷-, -CONR²⁵R²⁶-, -CN, -OCOOR²⁷-, or halogen,

wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, C₁-C₁₈alkoxy, C₁-C₁₈alkyl, or C₁-C₁₈alkyl which is interrupted by -O-, or

R²⁵ and R²⁶ together form a five or six membered ring, R²⁷ and R²⁸ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₁₈alkyl, or C₁-C₁₈alkoxy, C₁-C₁₈alkyl, or C₁-C₁₈alkyl which is interrupted by -O-,

R²⁹ is H, C₆-C₁₈aryl, C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl, C₁-C₁₈alkoxy, C₁-C₁₈alkyl, or C₁-C₁₈alkyl which is interrupted by -O-,

R³⁰ and R³¹ are independently of each other C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl, and

R³² is C₁-C₁₈alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₁₈alkyl.

- 21. (new)** A monomer according claim 20, wherein R¹ and R² are independently of each other H, C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₂-C₁₈alkenyl, C₂-C₁₈alkynyl, C₁-C₁₈alkoxy, C₁-C₁₈alkoxy which is substituted by E and/or interrupted by D,

$\begin{array}{c} R^{14'} \\ | \\ -C= \\ | \\ R^{15'} \end{array} - X^4$, $\begin{array}{c} R^{14'} \\ | \\ -C= \\ | \\ X^4 \end{array} - R^{15'}$, $-C\equiv C-X^5$, C₇-C₂₅alkyl, C₆-C₂₄aryl or C₂-C₂₀heteroaryl, which optionally can be substituted,

X⁴ is C₁-C₁₈alkyl, C₁-C₁₈alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, which optionally can be substituted,

X⁵ is C₁-C₁₈alkyl, C₆-C₂₄aryl, C₆-C₂₄aryl substituted by -OC₁-C₁₈alkyl or -OC₆-C₂₄aryl.